

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A method of making single-wall carbon nanotubes which comprises:
  - (a) making a vapor comprising carbon and one or more Group VIII transition metals by vaporizing a mixture of carbon and one or more Group VIII transition metals with a first laser pulse;
  - (b) ~~then~~ condensing the vapor to form a single-wall carbon nanotube having a live end;
  - (c) ~~then~~ supplying carbon vapor to the ~~line~~ live end of the single-wall carbon nanotube while maintaining the live end of the single-wall carbon nanotube in an annealing zone.
- 2-34. (Canceled)
35. (Previously Presented) A rope of single-wall carbon nanotubes having 50 to 5000 single-wall carbon nanotubes of which greater than 10% are (10, 10) single-wall carbon nanotubes.
36. (Previously Presented) A rope of single-wall carbon nanotubes in accordance with claim 35 wherein more than 50% are (10, 10) single-wall carbon nanotubes.
37. (Previously Presented) A rope of single-wall carbon nanotubes in accordance with claim 36 wherein more than 90% are (10, 10) single-wall carbon nanotubes.
38. (Previously Presented) A rope of single-wall carbon nanotubes in accordance with claim 37 wherein the rope comprises 100 to 500 single-wall carbon nanotubes.
39. (Previously Presented) A rope of single-wall carbon nanotubes in accordance with claim 38 wherein the average diameter of all single-wall carbon nanotubes in the rope is  $13.8 \text{ \AA} \pm 0.3 \text{ \AA}$ .

40. (Previously Presented) A rope of single-wall carbon nanotubes in accordance with claim 38 wherein the average diameter of all single-wall carbon nanotubes in the rope is  $13.8 \text{ \AA} \pm 0.2 \text{ \AA}$ .
41. (Previously Presented) A rope in accordance with claim 40 wherein the 2-D triangular lattice constant is  $17 \text{ \AA}$ .
42. (Previously Presented) A rope of single-wall carbon nanotubes in accordance with claim 35 comprising about 100 to about 500 single-wall carbon nanotubes of which greater than 50% are single-wall carbon nanotubes of the armchair form.
43. (Previously Presented) A rope of single-wall carbon nanotubes in accordance with claim 42 wherein greater than 75% of the single-wall carbon nanotubes are of the armchair form.
44. (Previously Presented) A rope of single-wall carbon nanotubes in accordance with claim 43 wherein greater than 90% of the single-wall carbon nanotubes are of the armchair form.
45. (Previously Presented) A rope of single-wall carbon nanotubes in accordance with claim 42 wherein the ropes are produced by using solar energy to vaporize the carbon that forms the single-wall carbon nanotubes.
46. (Previously Presented) A felt, comprising single-wall carbon nanotubes.
47. (Previously Presented) The felt of claim 46, wherein the felt comprises about 30 - 100 wt. % single-wall carbon nanotubes.
48. (Currently Amended) The felt of claim 46, wherein said single-wall carbon nanotubes comprise ropes of single-wall ~~nanotubes~~ nanotubes.
49. (Previously Presented) The felt of claim 48, wherein said felt is electrically conductive.
50. (Previously Presented) The felt of claim 49, wherein the size of said felt is  $10 \text{ mm}^2$ ,  $100 \text{ mm}^2$ , or  $1000 \text{ mm}^2$ .
51. (Previously Presented) The felt of claim 49, wherein the size of said felt is at least  $10 \text{ mm}^2$ .
52. (Currently Amended) A ~~buckypaper~~ mat, comprising single-wall carbon nanotubes.

53. (Currently Amended) The ~~buckypaper~~ mat of claim 52, wherein the ~~buckypaper~~ mat comprises about 30 - 100 wt. % single-wall carbon nanotubes.
54. (Currently Amended) The ~~buckypaper~~ mat of claim 52, wherein said single-wall carbon nanotubes comprise ropes of single-wall nonotubes.
55. (Currently Amended) The ~~buckypaper~~ mat of claim 54, wherein said ~~buckypaper~~ mat is electrically conductive.
56. (Currently Amended) The ~~buckypaper~~ mat of claim 55, wherein the size of said ~~buckypaper~~ mat is 10 mm<sup>2</sup>, 100 mm<sup>2</sup>, or 1000 mm<sup>2</sup>.
57. (Currently Amended) The ~~buckypaper~~ mat of claim 55, wherein the size of said ~~buckypaper~~ mat is at least 10 mm<sup>2</sup>.